

Notice of Allowability

Application No.

09/893,179

Applicant(s)

YU ET AL.

Examiner

Art Unit

Amanda T Le

2634

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the papers filed on 6/27/01.
2. ☒ The allowed claim(s) is/are 1-26.
3. ☒ The drawings filed on 27 June 2001 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413),
Paper No./Mail Date attached herewith.
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. David Gildea on January 10, 2005.

The application has been amended as follows:

Claim 1, line 14, replace "A" with --"B"--;

Claim 1, line 15, replace "A" with -- "B"--;

Claim 6, line 12, replace "A" with --"B"--;

Claim 6, line 13, replace "A" with --"B"--;

Claim 12, line 16, replace "A" (first occurrence) with --"B"--;

Claim 12, line 16, replace "A" (second occurrence) with --"B"--;

Claim 17, line 15, replace "A" (first occurrence) with --"B"--;

Claim 17, line 15, replace "A" (second occurrence) with --"B"--.

REASONS FOR ALLOWANCE

2. The following is an examiner's statement of reasons for allowance:

Skinner et al (US 5,577,025) discloses a method for signal timing acquisition in a multi-user communication system by controlling signal amplitude integration intervals used in

detecting such timing. Abraham (US 6,606,346) discloses an apparatus for computing a convolution between an input GPS signal and a C/A code reference.

Prior art of record, taken individually or collectively, fails to disclose a method or an apparatus for acquiring a spread-spectrum signal comprising “segmenting a reception time period for said incoming signal into A time segments of about one-half a period for said data bits and B time segments of about one-half a period for said data bits, said A time segments alternating with said B time segments; and integrating a representation of said incoming signal for said A time segments for determining A segment magnitude sets, respectively, and for said B time segments for determining B segment magnitude sets, respectively; said “AB segment magnitude sets having “A” segment magnitudes corresponding to code phases of said spreading code, respectively, and said “B segments magnitude sets having “B” segment magnitudes corresponding to said code phases, respectively” or “organizing time into alternating time segments A and B so that either the segments A or the segments B avoid data bit inversions; performing A integrations of the signal in the segments A and combining the magnitudes of the A integrations to produce a combination A; performing B integrations of the signal in the segments B and combining the magnitudes of the B integrations to produce a combination B; and further processing at least the one of the combinations A and B having the greater magnitude” as claimed.

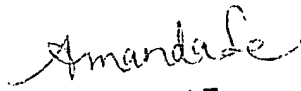
Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled “Comments on Statement of Reasons for Allowance.”

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Amanda T Le whose telephone number is (571) 272-3052.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin can be reached on (571) 272-3056. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


AMANDA T. LE
PRIMARY EXAMINER